NEW MODEL INFORMATION

DENON

DTS-ES and Dolby Digital EX A/V Receiver

AVR-2105

DTS-ES Discrete 6.1 and Dolby Digital EX with Power Amps for 7 Channels

dts 96/24 ES NEO:6 | DOLBY DIGITAL EX PRO LOGIC IIx | EQUAL POWER | 7ch STEREO | CINEMA EQ | Multi Room Music Entertainment System | 6-ch Ext. Input | Personal Memory Plus | GLO-KEY REMOTE COMMANDER

■ High-Quality Sound Reproduction

• NEW High Resolution 32bit Floating Point DSP

• 24 bit, 192 kHz High Resolution D/A Conversion Capability

■ Auto Setup with Microphone

The AVR-2105 is equipped with an Auto Setup function, to achieve the most ideal sound field for your room. With the microphone placed at your listening position, the powerful new 32bit floating point DSP accurately analyzes and automatically adjusts the speaker configurations for your room. The microphone (DM-S305) is a specially designed, high performance unit with a heavy duty base to suppresses vibrations for accurate analyzing.

■ High-grade Up Conversion

This video transcoding (up-conversion) allows you to enjoy high picture quality from all video sources connected to the AVR-2105. Since composite and S-video signals are up-converted into component video signals and output to the monitor, all you need to do is connect a monitor that has component video input jacks.

■ 3 Sets of Component Video Inputs

The AVR-2105 is equipped with 3 sets of assignable, component video inputs and 1 set of monitor outputs (all RCA terminals)

■ Fully Discrete, Equal Power Seven Amplifier Channels, 90 Watts Each

Front	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Center	90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
Surround Back	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)

For optimum Dolby Digital and dts reproduction, the AVR-2105 features high quality, wideband audio amplification, providing 90 watts power output for each of the 7 main channels. A large capacity power supply includes a high current power transformer along with discrete power output devices on all 7 amplifier channels for highest dynamic range and superb reproduction clarity.

■ DENON's Basic Design for High-Quality Sound Reproduction

• Power Transformer for High Power Driven

The chassis that supports the large transformer has been designed to absorb vibration, and the transformer is housed inside a highly rigid frame to secure it more solidly to the chassis. In addition, a cushioning material has been placed around the core of the transformer to minimize interference on the signal and enable more faithful reproduction of the original sound.
The AVR-2105 inherits these low-noise design from higher-end models not to mention the use of short ring.

• Twin Drive Rectifier

DENON's Twin Drive Rectifier design uses two rectifying diodes in parallel to bring out the maximum potential of the large transformer. Since the rectifiers recharge the large block capacitors at low impedance, they are able to supply ample current to reproduce deep basses as well as sudden bursts of sound from percussion or other musical instruments.

• Large Aluminum Extruded Heatsink

DENON uses a large heatsink made of extruded aluminum. It is placed in a design that ensures mostly uniform temperatures throughout the heatsink. This will ensures that all channels respond with equal performance to the demands of the audio signals.

■ Dual-Channel Surround Back Power Amp for 7.1 Surround

The AVR-2105 is equipped with a total of 7 power amps including 2 for the Surround Back channel speaker to give you more clearly defined sound localization at the rear for 6.1-channel surround sources such as DTS-ES Discrete 6.1, DTS-ES Matrix 6.1, Dolby Digital EX and DTS-ES NEO:6.

■ Wide-Range Play Capability for DVD-Audio and Super Audio CD

The power amp circuits of the AVR-2105 have been meticulously designed to reproduce exceptionally high sound quality with a wide frequency response from 10 Hz to 100 kHz.

■ Cinema Equalizer

The sound from movie sources recorded in Dolby Digital, DTS or other formats emphasizes high-frequency due to a theater's front speakers being placed behind the movie screen. If this sound is reproduced in the home theater without correction, the high-frequency range is too strong. The AVR-2105 features a Cinema Equalizer to correct these high-frequency components so that the sound is clearer and easier to listen to. (For Dolby Digital, Dolby Pro Logic II and IIx, Dolby Digital EX and DTS surround modes)

■ On Screen Display

The AVR-2105 lets you make system settings via diaplays on your TV screen from the comfort of your chair.

■ Personal Memory Plus, for Easy Operation

The AVR-2105 includes the Personal Memory Plus function that automatically remembers the surround mode you last used for each program source, so that you do not need to select the mode again for that program.

■ Acclaimed Customization Feature

As with all of DENON's high-grade A/V receiver, the AVR-2105 lets you adjust delay times and other parameters so that you can customize the performance of the AVR-2105 to suit your own home theater and enhance operating ease. These customized features are then stored, for each source input and surround mode, in Personal Memory Plus so constant readjustments are not required.

■ Multi-Function Preset Memory Remote Controller with Glo-keys

The supplied system remote controller features a large selection of remote control codes to operate other components in your home theater system, including codes for selected DENON models, along with remote control codes from other manufacturers. The most frequently used buttons are laid out separately for TV, VCR and DVD, for maximum ease-of-use.

* Remote control codes may not be available for some products of other manufacturers

■ DENON's Latest Surround Technology Faithfully Recreates the Surround Sound Produced at the Dubbing Stage.

- **DTS 96/24 Decoding for DVD-Video**
- **DTS-ES Discrete 6.1 and Matrix 6.1**
- **DTS NEO:6**
- **Dolby Digital EX**
- **Dolby Pro Logic IIx**

■ 5 Channel/7 Channel Stereo Mode

DENON's popular 7 Channel Stereo mode transforms your favorite 2-channel sources such as CD, tape, stereo radio and stereo video sources into exciting surround sound, free of delay effects and unnatural artifacts, from all seven speakers. This 7 Channel Stereo mode was originally developed by DENON to enhance music lovers' enjoyment with home theater ambience.

■ Adjustable Cross-Over Switching

The AVR-2105 supports subwoofer cross-over switching with a choice of 8 cross-over frequencies: 40/60/80/100/120/150/200/250Hz. This lets you more accurately match the performance characteristics of the subwoofer to the main speaker system.

■ Support for Multi-Zone Configurations

The AVR-2105 provides a Multi Zone Output function and a Select function that let you output different surces to multiple zones. Sources can be selected for output to an additional zone, in addition to the main room.

■ Multi Zone Power Amplifier Assign

The AVR-2105's Power Amplifier Assign function lets you assign the Surround Back (SB) amplifier channel when the system is not configured for 7.1 to instead drive the Multi-room Zone 2 speakers, with 90 Watts per channel output power, while still providing 5 discrete amplifier channels to drive all speakers in a 5.1 configured home theater room.

■ REC OUT Selector

■ All ch Preout

■ Front Panel Inputs (with S-Video, Digital Optical Input)

■ Front A/B Speaker Terminals

■ High-grade 7 Channel Speaker Terminals (all ch)

■ Frequency Synthesis Tuning

- **56-Station AM/FM Random Preset Memory Tuning**
- **Auto Preset Memory**

Specifications

■ Input/Output Terminals For Every A/V System

• Audio Inputs

9 Analog Inputs	PHONO, CD, (TUNER), DVD/VDP, TV/DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX (FRONT)
6 Analog EXT. Inputs	FRONT L/R, CENTER, SURROUND L/R, SUBWOOFER
5 Digital Inputs	OPTICAL x 4 (Incl. FRONT x 1) COAXIAL x 1

• Audio Outputs

Analog PRE OUT Terminals	FRONT L/R, CENTER, SURROUND L/R, SURROUND BACK L/R, SUBWOOFER
3 Analog REC OUT Terminals	VCR-1, VCR-2, CDR/TAPE
1 Analog Multi Zone 2 Output	L/R
1 Digital Output	OPTICAL x 1

• Video Inputs

3 Component Video Inputs	VIDEO1, VIDEO2, VIDEO3
5 Composite Inputs	DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX (FRONT)
5 S-Video Inputs	DVD/VDP, TV/DBS, VCR-1, VCR-2, V.AUX (FRONT)

• Video Outputs

1 Component Video Output	MONITOR
3 Composite Outputs	VCR-1, VCR-2, MONITOR
3 S-Video Outputs	VCR-1, VCR-2, MONITOR

■ Power Amplifier Section

*THD figures are power amp stage values.

Rated output		
Front	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	125 W + 125 W	(6 ohms, 1 kHz, 0.7 % THD)
Center	90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	125 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	125 W + 125 W	(6 ohms, 1 kHz, 0.7 % THD)
Surround Back	90 W + 90 W	(8 ohms, 20 Hz - 20 kHz, 0.08 % THD)
	125 W + 125 W	(6 ohms, 1 kHz, 0.7 % THD)

■ Preamplifier Section

Input sensitivity/Impedance	
PHONO(MM)	2.5 mV/47 kohms
CD, DVD/VDP, TV/DBS, VCR-1, VCR-2, CDR/TAPE, V.AUX(FRONT)	200 mV/47 kohms
Output level/Load impedance	
SUBWOOFER	1.2 V/10 kohms
CDR/TAPE, VCR-1, VCR-2, ZONE2	200 mV/47 kohms
Frequency response	10 Hz - 100 kHz (+1, -3 dB) (Tone Defeat On)
Signal-to-noise ratio	100 dB (IHF-A weighted) (Tone Defeat On)
Tone control	Treble: ±6 dB at 10 kHz Bass: ±6 dB at 100 Hz

■ FM Section

Tuning frequency range	87.5 - 107.9 MHz
Usable sensitivity	1.0 µV (11.2 dBf)

■ AM Section

Tuning frequency range	520 - 1710 kHz
Usable sensitivity	18 µV

■ General

Power supply	AC 120 V, 60 Hz
Power consumption	5.3 A
Dimensions	434 (W) x 171 (H) x 417 (D) mm 17-3/32" (W) x 6-47/64" (H) x 16-27/64" (D)
Weight	13.3 kg, 29 lbs 5 oz

*Design and specifications are subject to change without notice.

*"Dolby", "Dolby Digital", "Pro Logic II", "Dolby Digital EX" and the double-D device are registered trademarks of Dolby Laboratories Licensing Corporation.
*DTS is registered trademarks of DTS Technology.

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